

PTO/SB/81 (09-03)

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**POWER OF ATTORNEY
and
CORRESPONDENCE ADDRESS
INDICATION FORM**

Application Number	09/496,898
Filing Date	2/2/2000
First Named Inventor	Judith C. Powelson
Title	Write Compensation for...
Art Unit	2753
Examiner Name	Unassigned
Attorney Docket Number	03-2430/CALMP011

I hereby appoint:

☒ Practitioners associated with the Customer Number:

24319

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

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State

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Country

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Fax

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Name Sandeep Jaggi Reg. No. 43,331

Signature

Date

Telephone 408/954-4923

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/06 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Calimetrix, Inc.Application No./Patent No.: 09/496,898 Filed/Issue Date: 02/02/2000Entitled: Write Compensation for a Multi-Level Data Storage SystemLSI Logic Corporation, a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Judith C. Powelson, et al. To: Calimetrix, Inc.
The document was recorded in the United States Patent and Trademark Office at Reel 010794, Frame 0574, or for which a copy thereof is attached.
2. From: Calimetrix, Inc. To: LSI Logic Corporation
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☐ Copies of assignments or other documents in the chain of title are attached.
[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

2-3-04
Date
408/954-4923
Telephone number

Sandeep Jaggi Reg. No. 43,331
Typed or printed name
[Signature]
Signature
Chief Intellectual Property Counsel
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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JULY 19, 2000

RITTER, VAN PELT & YI LLP
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4906 EL CAMINO REAL, SUITE 205
LOS ALTOS, CA 94022

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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/08/2000

REEL/FRAME: 010794/0574
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

POWELSON, JUDITH C.

DOC DATE: 04/21/2000

ASSIGNOR:

WARLAND, DAVID K.

DOC DATE: 04/21/2000

ASSIGNEE:

CALIMETRICS, INC.
851 ATLANTIC AVENUE, #105
ALAMEDA, CALIFORNIA 94501

SERIAL NUMBER: 09496898
PATENT NUMBER:

FILING DATE: 02/02/2000
ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

05-23-2000



101364424

ASSIGNMENT RECORDATION COVER SHEET -PATENTS ONLY-

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)

- a) Judith C. Powelson
b) David K. Warland

2. Name and address of receiving party(ies):

- a) Name: Calimetrix, Inc.
b) Address: 851 Atlantic Avenue, #105
Alameda, CA 94501

3. Nature of conveyance

- | | |
|--|--|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> License Agreement |

Execution Date: April 21, 2000

4. Application Number(s) or Patent Number(s): 09/496,898

The title of the (new) application is:

WRITE COMPENSATION FOR A MULTI-LEVEL DATA STORAGE SYSTEM

5. Please send all correspondence concerning this (these) documents to:

Customer No. 21912
Ritter, Van Pelt & Yi LLP
4906 El Camino Real, Suite 205
Los Altos, CA 94022
(650) 903-3500 (PH)
(650) 903-3501 (FX)

05/22/2000 JEM:RAZ 00000159 09496898

01 FC:581

48.00 00

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed
☒ Any deficiencies are hereby authorized to be charged to Deposit Account No. 50-0685 (Order No. CALMP011)

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: May 1, 2000

Lee Van Pelt
Registration No. 38,352

ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

WRITE COMPENSATION FOR A MULTI-LEVEL DATA STORAGE SYSTEM

for which I (we) have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on February 2, 2000, and which bears the Application No. 09/496,898.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to Calimetrics, Inc. a California corporation having a place of business at 851 Atlantic Avenue, #105, Alameda, CA 94501, (hereinafter referred to as ("ASSIGNEE")), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

- 1) Signature: Judith C. Powelson Date: Apr 21, 2000
Typed Name: Judith C. Powelson
- 2) Signature: David K. Warland Date: 4/21/2000
Typed Name: David K. Warland

Atty Dkt. No. CALMP011

Nov 20 03 04:00p

Kenneth C Campbell

909-584-7634

GENERAL PATENT ASSIGNMENT

WHEREAS, Calimetrics, Inc., a California corporation ("Assignor") owns the patents and patent applications listed and described on Schedule A attached hereto (the "Patents"); and

WHEREAS, Assignor and LSI Logic Corporation ("Assignee") have entered into an Asset Purchase Agreement dated November 21, 2003, pursuant to which Assignor has agreed, *inter alia*, to grant to Assignee all of Assignor's right title and interest in and to the Patents and Assignee desires to acquire the entire right, title and interest in and to the Patents.

NOW, THEREFOR, in consideration of the foregoing and the sum of One Dollar (\$1.00), and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor does hereby irrevocably sell, assign, convey and transfer unto Assignee, the entire right, title and interest in and to the Patents, anywhere in the world, including any patents issuing from or based upon all patent applications thereon, any foreign counterparts thereof, and any continuations, continuations-in-part, divisions, reissues or extensions of the foregoing, and including, without limitation, the right to sue for and recover damages for any past, present or future infringement of the foregoing, the same to be held and enjoyed by Assignee for its own use, and for its legal representatives and assigns, to the full end of the term for which patents are granted, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.

Assignor agrees to execute, any further papers and to do such other acts as may be necessary and proper, or otherwise required by the Asset Purchase Agreement, to vest full title in and to the Patents in Assignee.

IN WITNESS WHEREOF, Assignor has caused these presents to be duly executed in a manner appropriate thereto as of the 21st day of November 2003.

CALIMETRICS, INC.

By: Name: Kenneth C CampbellTitle: President & CEO

ACKNOWLEDGMENT

State of California)
) ss:
County of San Bernardino

On this 20th day of November 2003, before me, the undersigned, personally appeared Kenneth C. Campbell, ☐ personally known to me - OR - ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature: Donna Reye Anaya

Notary Public

(Seal)



SCHEDULE A

Patents and Patent Applications

Issued Patents:

Calimetrics Original Issued US Patents (17)

Patent No.	Title	Inventors	Filing Date	Issue Date
5,818,806	Method and Apparatus for Providing Equalization for the Reading of Marks on Optical Data Storage Media	Wong, Spielman	5/8/1997	10/6/1998
5,854,779	Optical Disc Reader for Reading Multiple Levels of Pits on an Optical Disc	Johnson, B; McDermott; O'Neill; Pietrzyk; Spielman; Wong	1/5/1996	12/29/1998
6,115,348	Information Storage Systems Utilizing Media With Optically Differentiated Data Sites	Guerra	12/24/1997	9/5/2000
6,148,428	Method and Apparatus for Modulation Encoding Data for Storage on a Multi-Level Optical Recording Medium	Welch; Wong; McLaughlin	5/21/1998	11/14/2000
6,249,507	Information Storage Systems Utilizing Media With Optically Differentiated Data Sites	Guerra	8/15/2000	6/19/2001
6,269,060	Programmable Write Signal Generator	Harvey; Swuito	9/9/1999	7/31/2001
6,275,458	Method and Apparatus for Reading and Writing A Multi-Level Signal from an Optical Disc	Wong; Spielman; Lee; Martin	2/18/1999	8/14/2001
6,377,529	Method for Providing Improved Equalization for the Reading of Marks on Optical Data-Storage Media	Lee; Ling; Lo; McLaughlin	6/1/2000	4/23/2002
6,381,724	Method and Apparatus for Modulation Encoding Data for Storage on a Multi-Level Optical Recording Medium	Welch; Wong; McLaughlin	8/22/2000	4/30/2002
6,385,255	Coding system and Method for Partial Response Channels	McLaughlin; Lee; Zingman; Fan	8/6/1999	5/7/2002
6,396,789	Data Storage System and Methods Using Diffractive Near-Field Optics	Guerra; Kendra	2/27/1998	5/28/2002
6,504,807	Programmable Write Signal Generator	Harvey; Swuito	6/7/2001	1/7/2003
6,604,219	DC Control of a Multilevel Signal	Lee, Fan, Lo	2/2/2000	8/5/2003
6,608,807	Generating a Multilevel Calibration Sequence for Precompensation	Lee	2/2/2000	8/19/2003
10/302,761	Programmable Write Signal Generator (allowed)	Harvey; Swuito	11/22/2002	
09/910,484	Method and Apparatus for Reading and Writing A Multi-Level Signal from an Optical Disc (allowed)	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Wartand, Zingman	7/19/2002	
09/746,748	Optical Disk Initialization Method and Apparatus (allowed)	Guerra; Vezanov	12/22/2000	

Acquired Issued US Patents (20)

Patent No.	Title	Inventors	Filing Date	Issue Date
5,113,387	THREE LASER OPTICAL DISK DRIVE SYSTEM	Goldsmith, Ziegler	12/12/1989	5/12/1992
5,128,849	OPTICAL DISK STRUCTURES FOR ELECTRON TRAPPING OPTICAL MEMORY MEDIA	Podraczky, Ziegler	12/12/1989	7/7/1992
5,195,082	OPTICAL DISK STRUCTURES FOR ELECTRON TRAPPING OPTICAL MEMORY MEDIA	Revay, Brower, Espin	4/22/1992	3/16/1993
5,537,382	PARTIAL RESPONSE CODING FOR A MULTI-LEVEL OPTICAL RECORDING CHANNEL	McLaughlin, Calderbank, Laroka, Gerpheide	11/22/1994	
5,657,014	M=7(3,7) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/12/1997
5,659,310	M=5(0,2) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/19/1997
5,659,311	M=6(2,4) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/19/1997
5,663,722	M=10(3,6) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/2/1997
5,663,723	M=7(1,3) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/2/1997
5,668,548	M=6(3,6) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/16/1997
5,670,956	M=5(3,7) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	8/23/1997
5,675,330	M=5(4,11) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	10/7/1997
5,680,128	M=6(3,8) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	10/21/1997
5,682,154	M=4(1,2) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	10/28/1997
5,682,155	M=8(4,11) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	10/28/1997
5,748,117	M=8(1,3) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	5/5/1998
5,748,118	M=7(3,8) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	5/5/1998
5,757,293	M=8(1,2) RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	5/26/1998
5,781,130	M-ARY (D,X) RUNLENGTH LIMITED CODING FOR MULTI-LEVEL DATA	McLaughlin	5/12/1995	7/14/1998
6,150,964	M=10(2,10), D=3.75 RUNLENGTH LIMITED CODE FOR MULTI-LEVEL DATA	McLaughlin	8/20/1997	11/21/2000

Calimetrics Issued Foreign Patents (2)

Patent No.	Country	Title	Inventors	Filing Date	Issue Date
707392	Australia	Apparatus and Methods for Forming and Use with Variable Pit Depth Optical Recording Media	Wong, Spielman	3/24/1997	8/7/1999 (acceptance to be advertised)
2,249,403	Canada	Apparatus and Methods for Forming and Use with Variable Pit Depth Optical Recording Media	Wong, Spielman	3/24/1997	1/9/2001

Pending Patent Applications:

Calimetrics Original US Patents Pending (14)

Serial No.	Title	Inventors	Filing Date
09/373,916	High Density Data Write Strategy	O'Neill; Wong; Balasubrama; Bashaw; Learnmonth; McDermott; Narayan; Powelson; Warland; Zhou	8/12/1999
09/476,395	Method and Format for Reading and Writing in a Multilevel Optical Disc System	Wong; Lewis; Lee; Ling; Pope; Spielman; Zingman	9/16/2003
09/496,898	Write Compensation for a Multi-Level Data Storage System	Powelson; Warland	2/2/2000
10/171,394	Advanced High Density Data Write Strategy	Balasubramanian, Hieslmair, Narayan, Powelson, Stinebaugh, Warland, Zhou	8/12/2002
09/828,311	Digital Automatic Gain Control of a Multilevel Optical Disc Read Signal	Lo; Lee; Powelson; Spielman	4/6/2001
09/872,486	Synchronization in Multilevel Optical Data Storage	Lee; Spielman; Zingman; Lewis	5/31/2001
10/012,257	Write Compensation for Data Storage and Communication System	Powelson; Warland; Harvey; Lo; Pepin; Spielman; Zhou; Zingman; Lee	11/8/2001
09/823,852	High Density Analog Recording	Miyagawa; Mansuripur	3/29/2001
09/842,214	Method of Fabricating Sub-Micron Hemispherical and Hemicylindrical Structures from Non-Spherically Shaped Templates	Vezenov; Guerra; Wan; Sullivan	4/25/2001
09/842,098	Optical Storage Medium with Virtual Track Pitch	Vezenov; Guerra; Wan; Sullivan; Nelson	4/25/2001
10/057,774	Advanced Forward Error Correction	McLaughlin; Thangaraj	1/22/2002
10/387,232	Secure Data Storage	Wong; Harvey; Lee; Lewis; Spielman; Tan; Warland	3/11/2003
10/455,756	DC Control of a Multilevel Signal	Lee, Fan, Lo	6/5/2003
10/608,890	Generating a Multilevel Calibration Sequence for Precompensation	Lee	6/26/2003

Calimetrics Foreign Patents Pending (7)

App. No.	Country	Title	Inventors	Filing Date
97917035.4	Europe	Apparatus and Methods for Forming and Use with Variable Pit Depth Optical Recording Media	Wong and Spielman	3/24/97
33584/00	Australia	Method and Apparatus for Reading and Writing in a Multilevel Optical Disc	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Warland, Zingman	2/8/2000
2,356,858	Canada	Method and Apparatus for Reading and Writing in a Multilevel Optical Disc	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Warland, Zingman	2/8/2000
911733.4	Europe	Method and Apparatus for Reading and Writing in a Multilevel Optical Disc	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Warland, Zingman	2/8/2000
2000-600,264	Japan	Method and Apparatus for Reading and Writing in a Multilevel Optical Disc	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Warland, Zingman	8/10/2001
10-2001-7010512	Korea	Method and Apparatus for Reading and Writing in a Multilevel Optical Disc	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Warland, Zingman	8/18/2001
200104098-9	Singapore	Method and Apparatus for Reading and Writing in a Multilevel Optical Disc	Wong; Fan; Lee, Ling, Lo, McLaughlin; McPheters, Martin, Powelson; Spielman; Warland, Zingman	2/8/2000